## Rampage IV Formula/BATTLEFIELD 3
### The world's best X79 gaming board with full version of Battelfied 3

- 2nd Generation Intel® Core™ i7 processor family for the LGA 2011 Socket
- Intel® X79 Express Chipset
- SupremeFX III - Supreme Sound
- Extreme Engine Digi+ II – Optimum power efficiency with premium components and intelligent digital design
- X-Socket - Get more life out of your LGA1366 CPU coolers
- NVIDIA® SLI™ / AMD CrossFireX™ Technology Support

# Dominate the Battlefield.
### ASUS hardware empowers the most engaging gaming experience

BATTLEFIELD 3 DICE

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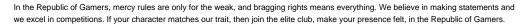
The Rampage IV Formula/Battlefield 3 motherboard is there to help you win in the heat of battle. Supporting the latest LGA 2011 socket for 2nd generation Intel® Core™ i7 and Extreme Processors, as well as Intel's new X79 chipset, the Rampage IV Formula/Battlefield 3 motherboard is a surgical strike to opposing forces. Tactical video support up to 4-Way SLI* and a SupremeFX III audio processor to power both video and audio senses, get immersed in a true gaming battlefield environment. For those that push themselves to the max, the Extreme Engine DIGI+ II is there to help like a combat medic, ensuring you have the strength to keep fighting. Move out! It's time to go on a Rampage.

## The Choice of Champions

The Republic of Gamers consists only the best of the best. We offer the best hardware engineering, the fastest performance, the most innovating ideas, and we welcome the best gamers to join in.

In the Republic of Gamers, mercy rules are only for the weak, and bragging rights means everything. We believe in making statements and we excel in competitions. If your character matches our trait, then join the elite club, make your presence felt, in the Republic of Gamers.

REPUBLIC OF GAMERS

## CPU & Chipset Features

### LGA2011 Intel® Core™ i7

This motherboard supports the latest Intel® Sandy Bridge-E processors in the LGA2011 package, with memory and PCI Express controllers integrated to support 4-channel (4

### Intel® X79 Chipset

The Intel® X79 Express Chipset is the latest single-chipset design that supports the new socket 2011 Intel® Core™ i7 Extreme Edition processors. It improves performance by utilizing serial point-to-point links, allowing for increased

DIMM) DDR3 memory and 16 PCI Express 3.0 lanes. This provides great graphics performance. Intel® Sandy Bridge-E processors are among the most powerful and energy efficient CPUs in the world.

bandwidth and stability. Additionally, the X79 comes with 2 SATA 6Gb/s and 4 SATA 3Gb/s ports for faster data retrieval, doubling the bandwidth of current bus systems.

## PCIe 3.0 Ready

### PCIe 3.0 Ready

The latest PCI Express bus standard delivers imporved encoding for twice the performance of current PCIe 2.0. Total bandwidth for a x16 link reaches a maximum of 32GB/s, double the 16GB/s of PCIe 2.0 (in x16 mode). PCIe 3.0 provides users unprecedented data speeds combined with the convenience and seamless transition offered by complete backward compatibility with PCIe1.0 and PCIe 2.0 devices. It is a must-have feature PC users aiming to improve and optimize graphics performance, as well as have the latest, most future-proof technology.
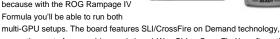
\* This motherboard is ready to support PCIe 3.0 SPEC. Functions will be available when using PCIe 3.0-compliant devices. Please refer to www.asus.com for updated details.

## Multi-GPU Technology

### SLI/CrossFire On-Demand

**Why choose when you can have both?**
SLI or CrossFireX? Fret no longer because with the ROG Rampage IV Formula you'll be able to run both multi-GPU setups. The board features SLI/CrossFire on Demand technology, supporting up to four graphics cards in a 4-Way SLI or CrossFireX configuration. Whichever path you take, you can be assured of jaw-dropping graphics at a level previously unseen.

(\*The 4-Way SLI bridge is purchased separately.)

## Memory features

### Quad-Channel, DDR3 2400(O.C.) MHz

**Quad-Channel DDR3 2400(O.C.) MHz**
The motherboard supports DDR3 memory that features data transfer rates of 2400(O.C.)/2133(O.C.)/1866(O.C.)/1600/1333 MHz MHz to meet the higher bandwidth requirements of the latest operation system, 3D graphics, multimedia, and Internet applications. The quad-channel DDR3 architecture double the bandwidth of your system memory to boost system performance.

## Sound with Clarity

### SupremeFX III™

**Supreme Sound**
The SupremeFX III™ onboard audio solution is an 8-channel HD audio equipped with a carefully selected 1500uF capacitor which provides clean, ripple-free audio power and – perfect for enveloping gaming environments. With a metallic EMI cover and special layout design on the PCB, advanced SupremeFX Shielding™ technology isolates analog audio signals from digital sources for exceptional clarity and high fidelity, while a gold-plated jack ensures rich notes reach your ears with minimal distortion. In real world testing, a signal-to-noise ratio (SNR) of 110dB was achieved, yielding almost lossless audio.

A bounty of industry standards are supported, including EAX® 5.0 Advanced HD, Creative® ALchemy and THX® TruStudio™ PRO, so the same great audio experiences found in live performances, films and recording studios are reproduced faithfully right on the PC. When bundled with the Sound Blaster® X-Fi MB2 suite, the SupremeFX III™ is the perfect choice to provide an exceptional gaming experience with realistic sound effects.

## ROG Exclusive Features

### Extreme Engine Digi+ II

**Optimum power efficiency with premium components and intelligent digital design**
The Extreme Engine Digi+ II has been upgraded and equipped with the finest Japan-made 10K Black metallic capacitors, while the digital VRM design allows you to achieve ultimate performance with adjustable CPU and memory power management frequencies. Precise adjustments create greater efficiency, stability, five times longer lifespan than solid capacitors\* and performance for total system control. (\*At operating temperature of 105°C)

### ROG Connect

**Plug and Overclock - Tweak it the hardcore way!**
Monitor the status of your desktop PC and tweak its parameters in real-time via a notebook—just like a race car engineer—with ROG Connect. ROG Connect links your main system to a notebook through a USB cable, allowing you to view real-time POST code and hardware status readouts on your notebook, as well as make on-the-fly parameter adjustments at a purely hardware level.

### GameFirst

**The speed you need to pwn**
Low Internet latency allows you to frag more, and get fragged less. That's why ROG has introduced GameFirst, a feature that manages the flow of traffic according to your needs so that you can still listen to online music, download and upload files, and engage in Internet chats without sacrificing the low ping times you need to pwn your opponents.

### X-Socket

**Pull the ol' switcharoo**
Don't junk that expensive LGA1366 heatsink! With X-Socket, switch out the LGA2011 pad for a 1366 one and get more life out of your previous CPU cooler.
> Learn More

## Rich Software Bundled

### Kaspersky® Anti-Virus

The best protection from viruses and spyware Kaspersky® Anti-Virus Personal offers premium antivirus protection for individual users and home offices. It is based on advanced antivirus technologies. The product incorporates the Kaspersky® Anti-Virus engine, which is renowned for malicious program detection rates that are among the industry's highest.

### DAEMON Tools Pro Standard

**The real tool for optical and virtual discs**
DAEMON Tools Pro offers essential functionality to backup CD, DVD and Blu-ray discs. It converts optical media into virtual discs and emulates devices to work with the virtual copies. DAEMON Tools Pro organizes data, music, video and photo collections on a PC, notebook or netbook.

### ROG CPU-Z

**Whole new design of CPU-Z**
ROG CPU-Z is a customized ROG version authorized by CPUID. It has the same functionality and credibility as the original version, with a unique design. Use the whole new look of ROG CPU-Z to truly report your CPU related information and your uniqueness.

### Mem TweakIt

**Dynamic timing adjustments, DRAM efficiency gauge**
When changing DRAM settings in BIOS, it always takes time for the system to reboot. Worry no more! With Mem TweakIt, you can do DRAM tuning in real-time, view your DRAM efficiency score, and upload and share your ranking online.

## Other Features

### Intel Gigabit LAN

**Experience the fast network connectivity!**
The LAN solution from Intel has been long known to have a better throughput, lower CPU utilization as well as better stability. With the Intel Gigabit LAN solution onboard, the ultimate network experience can therefore be delivered to its users like never before.

## Specifications

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|---|---|
| CPU | Intel® Socket 2011 for 2<sup>nd</sup> Generation Core™ i7 Processors<br>Supports Intel® Turbo Boost Technology 2<br>* Refer to www.asus.com for CPU support list |
| Chipset | Intel® X79 |
| Memory | 4 x DIMM, Max. 32GB, DDR3 2400(O.C.)/2200(O.C.)/2133(O.C.)/2000(O.C.)/1800(O.C.)/1600/1333/1066 MHz Memory<br>Quad Channel Memory Architecture<br>Supports Intel® Extreme Memory Profile (XMP)<br>* Hyper DIMM support is subject to the physical characteristics of individual CPUs. |
| Multi-GPU Support | Supports NVIDIA® 4-Way SLI™ Technology *[1]<br>Supports AMD 4-Way CrossFireX Technology |
| Expansion Slots | 4 x PCIe 3.0/2.0 x16 (x16; x16/x16; x16/x8/x16 and x16/x8/x8/x8, red) *[2]<br>2 x PCIe 2.0 x1 |
| Storage | **Intel® X79 chipset :**<br>2 x SATA 6Gb/s port(s), red<br>4 x SATA 3Gb/s port(s), black<br>Support Raid 0, 1, 5, 10<br>**ASMedia® ASM1061 controller :**<br>2 x SATA 6Gb/s port(s), red<br>2 x Power eSATA 6Gb/s port(s), red |
| LAN | Intel®, 1 x Gigabit LAN Controller(s) |
| Audio | SupremeFX III built-in 8-Channel High Definition Audio CODEC<br>- Output Signal-to-Noise Ratio (A-Weighted): 110 dB<br>- Output THD+N at 1kHz: 95 dB<br>- Supports : Jack-detection, Multi-streaming, Front Panel Jack-retasking<br>**Audio Feature :**<br>- SupremeFX Shielding™ Technology<br>- 1500 uF Audio Power Capacitor<br>- Gold-plated jacks<br>- X-Fi® Xtreme Fidelity™<br>- EAX® Advanced™ HD 5.0<br>- THX® TruStudio PRO™<br>- Creative ALchemy<br>- Blu-ray audio layer Content Protection<br>- Optical S/PDIF out port(s) at back panel |
| USB Ports | **ASMedia® USB 3.0 controller :**<br>6 x USB 3.0 port(s) (4 at back panel, blue, 2 at mid-board)<br>**Intel® X79 chipset :**<br>12 x USB 2.0 port(s) (6 at back panel, black+white, 6 at mid-board) |
| Overclocking Features | **ROG Connect :**<br>- RC Diagram<br>- RC Remote |

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| Special Features | - RC Poster<br>- GPU TweakIt<br>**Extreme Engine Digi+ II :**<br>- 8 -phase CPU power design<br>- 3 -phase VCCSA power design<br>- 2 + 2 phase DRAM power design<br>**ROG Extreme OC kit :**<br>- Slow Mode<br>- LN2 Mode<br>- PCIe x16 Lane Switch<br>- Q Reset<br>- EZ Plug<br>**ProbeIt**<br>**UEFI BIOS features :**<br>- ROG BIOS Print<br>- ROG BIOS Wallpaper<br>- GPU.DIMM Post<br>**GameFirst**<br>**iROG**<br>**Extreme Tweaker**<br>**Loadline Calibration**<br>**USB BIOS Flashback**<br>**Overclocking Protection :**<br>- COP EX (Component Overheat Protection - EX)<br>- Voltiminder LED II<br>- ASUS C.P.R.(CPU Parameter Recall)<br><br>**ASUS EPU :**<br>- EPU<br>**CPU Level Up**<br>**ASUS Exclusive Features** :<br>- MemOK!<br>- Onboard Button : Power/Reset/Clr CMOS (at back IO)<br>**ASUS Quiet Thermal Solution** :<br>- ASUS Fan Xpert<br>**ASUS EZ DIY :**<br>- ASUS O.C. Profile<br>- ASUS CrashFree BIOS 3<br>- ASUS EZ Flash 2<br>- ASUS MyLogo 2<br>**ASUS Q-Design :**<br>- ASUS Q-LED (CPU, DRAM, VGA, Boot Device LED)<br>- ASUS Q-Slot<br>- ASUS Q-DIMM<br>- ASUS Q-Connector |
| Back I/O Ports | 1 x PS/2 keyboard/mouse combo port(s)<br>2 x eSATA 6Gb/s<br>1 x LAN (RJ45) port(s)<br>4 x USB 3.0<br>6 x USB 2.0 (one port can be switched to ROG Connect)<br>1 x Optical S/PDIF out<br>6 x Audio jack(s)<br>1 x Clear CMOS button(s)<br>1 x ROG Connect On/ Off switch(es) |
| Internal I/O Ports | 1 x USB 3.0 connector(s) support(s) additional 2 USB 3.0 port(s)<br>3 x USB 2.0 connector(s) support(s) additional 6 USB 2.0 port(s)<br>4 x SATA 6Gb/s connector(s)<br>4 x SATA 3Gb/s connector(s)<br>2 x CPU Fan connector(s)<br>3 x Chassis Fan connector(s)<br>3 x Optional Fan connector(s)<br>1 x S/PDIF out header(s)<br>1 x 24-pin EATX Power connector(s)<br>1 x 8-pin ATX 12V Power connector(s)<br>1 x Front panel audio connector(s) (AAFP)<br>1 x System panel(s)<br>1 x Slow Mode switch(es)<br>8 x ProbeIt Measurement Points<br>3 x Thermal sensor connector(s)<br>1 x EZ Plug connector(s) (4-pin Molex power connector)<br>1 x Power-on button(s)<br>1 x Reset button(s)<br>1 x LN2 Mode switch(es)<br>1 x Go Button(s) |
| Accessories | User's manual<br>I/O Shield<br>4 x SATA 3Gb/s cable(s)<br>4 x SATA 6Gb/s cable(s) |

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| | 1 x 3-Way SLI bridge(s)<br>1 x SLI bridge(s)<br>1 x CrossFire cable(s)<br>1 x Q-connector(s) (2 in 1)<br>1 x ROG Connect cable(s)<br>1 x ROG theme label(s)<br>1 x 12 in 1 ROG Cable Label(s)<br>1 x X-Socket pad(s)<br>1 x ROG Door Hanger(s)<br>1 x BATTLEFIELD 3 Key Code(s)<br>1 x BATTLEFIELD 3 Lanyard(s) |
| BIOS | 2 x 64Mb UEFI AMI BIOSs, PnP, DMI2.0, WfM2.0, SM BIOS 2.5, ACPI2.0a Multi-Language BIOS |
| Manageability | WfM2.0, DMI2.0, WOL by PME, WOR by PME, PXE |
| Support Disc | Drivers<br>Sound Blaster® X-Fi 2 Utility<br>Kaspersky® Anti-Virus<br>DAEMON Tools Pro Standard<br>ROG CPU-Z<br>Mem TweakIt<br>ASUS WebStorage<br>ASUS Utilities |
| Form Factor | ATX Form Factor<br>12 inch x 9.6 inch ( 30.5 cm x 24.4 cm ) |
| Note | *1: The 4-Way SLI™ bridge is purchased separately.<br>*2: This motherboard is ready to support PCIe 3.0 SPEC. Functions will be available when using PCIe 3.0-compliant devices. Please refer to www.asus.com for updated details. |